



الخطة الدراسية

Program Curriculum First level

1st Semester

		Con ho	tact urs	ırs		M	ark Di	stribu	tion		Time	ite
Code	Course title	Lecture	Practical	Credit hours	Final Exam	Practical Exam	Mid-Term Exam	Course Activities	Oral Exam	Total	Exam Ti	Prerequisite
BSD101	Calculus	2	2	3	60	-	10	25	5	100	2	ı
BSD103	Discrete Mathematics	2	2	3	60	-	10	25	5	100	2	-
CSD102	Basics of Computer Science	2	2	3	50	20	10	15	5	100	2	-
ISD101	Fundamentals of Information Systems	2	2	3	50	20	10	15	5	100	2	-
ISD102	Introduction to Database System	2	2	3	50	20	10	15	5	100	2	-
	Total			15						500		

	Semester	Con	tact									
		ho		ırs		M	ark Di	stribut	tion		Time	ite
Code	Course title	Lecture	Practical	Credit hours	Final Exam	Practical Exam	Mid-Term Exam	Course Activities	Oral Exam	Total	Exam Ti	Prerequisite
BSD104	Linear Algebra	2	2	3	60	-	10	25	5	100	2	-
BSD105	Statistics and Probabilities	2	2	3	60	-	10	25	5	100	2	BSD101
BSD226	Technical Writing	2	-	2	60	ı	10	25	5	100	2	-
CSD101	Digital Logic Design	2	2	3	50	20	10	15	5	100	2	-
CSD106	Fundamentals of Programming	2	2	3	50	20	10	15	5	100	2	CSD102
ISD104	System Analysis and Design	2	2	3	50	20	10	15	5	100	2	ISD102
	Total			17						600		





Second Level

1st Semester

		Con ho	tact urs	ırs		M	ark Di	stribu	tion		Time	ite
Code	Course title	Lecture	Practical	Credit hours	Final Exam	Practical Exam	Mid-Term Exam	Course Activities	Oral Exam	Total	Exam Ti	Prerequisite
BSD220	Stochastic Process	2	2	3	60	-	10	25	5	100	2	BSD105
BSD222	Operations Research	2	2	3	60	-	10	25	5	100	2	BSD101 BSD104
CSD221	Data Structures	2	2	3	50	20	10	15	5	100	2	CSD106
CSD223	Object Oriented Programming	2	2	3	50	20	10	15	5	100	2	CSD106
ISD224	Web Pages Programming	2	2	3	50	20	10	15	5	100	2	-
	Elective Course (1)	2	2	3	50	20	10	15	5	100	2	-
	Total			18						600		

		Con ho	tact urs	ırs		M	ark Di	stribu	tion		Time	ite
Code	Course title	Lecture	Practical	Credit hours	Final Exam	Practical Exam	Mid-Term Exam	Course Activities	Oral Exam	Total	Exam Tir	Prerequisite
BSD227	Ordinary Differential Equations (ODEs)	2	2	3	60	-	10	25	5	100	2	BSD101
BSD228	Advanced Math	2	2	3	60	-	10	25	5	100	2	BSD101
BSD232	Physics	2	1	2	50	20	10	15	5	100	2	CSD101
CSD230	Analysis of algorithms	2	2	3	50	20	10	15	5	100	2	CSD221
ISD229	Electronic Business	2	2	3	50	20	10	15	5	100	2	-
	Elective Course (2)	2	2	3	50	20	10	15	5	100	2	-
	Total			17						600		





Elective Courses of Second Level

المتطلب السابق		عدد اله الفع	عدد الساعات	ا الله قد الله قد الله	كود المقدر
السابق	عملي	محاضر ة	المعتمدة	اسم المقرر	كود المقرر
-	2	2	3	Information Theory نظریة المعلومات	ISD225
CSD106	2	2	3	Concepts of programming Languages مفاهيم لغات البرمجة	CSD231
ISD224	2	2	3	Web Technology تقنية الويب	ISD232
BSD101 BSD104	2	2	3	Numerical Analysis التحليل الرقمي	BSD233
BSD228	2	2	3	Advanced Math-2 الرياضيات المتقدمة-2	BSD229
BSD101	2	2	3	Partial Differential Equation and Its Numerical Solution	BSD234





Third Level – Computer Science

1st Semester

		Con ho		ırs		M	ark Di	stribu	tion		Time	ite
Code	Course title	Lecture	Practical	Credit hours	Final Exam	Practical Exam	Mid-Term Exam	Course Activities	Oral Exam	Total	Exam Tir	Prerequisite
CSD331	Artificial Intelligence	2	2	3	50	20	10	15	5	100	2	CSD230
CSD332	Computer Architecture	2	2	3	50	20	10	15	5	100	2	CSD101
CSD333	Operating Systems	2	2	3	50	20	10	15	5	100	2	CSD230
CSD334	Digital Image Processing	2	2	3	50	20	10	15	5	100	2	BSD104 CSD230
CSD335	Assembly Language	2	1	2	60	10	10	15	5	100	2	CSD101
	Elective Course (3)	2	2	3	50	20	10	15	5	100	2	-
	Total			17						600		

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		Con hou		ırs		M	ark Di	stribut	tion		Time	ite
Code	Course title	Lecture	Practical	Credit hours	Final Exam	Practical Exam	Mid-Term Exam	Course Activities	Oral Exam	Total	Exam Ti	Prerequisite
CSD336	Theory and Design of Compilers	2	2	3	50	20	10	15	5	100	2	CSD231
CSD337	Computer Graphics	2	2	3	50	20	10	15	5	100	2	CSD230
CSD338	Introduction to Computer Networks	2	2	3	50	20	10	15	5	100	2	CSD332
CSD341	Software Engineering	2	2	3	50	20	10	15	5	100	2	ISD104
CSD340	Simulation and Modeling	2	2	3	50	20	10	15	5	100	2	BSD105
	Elective Course (4)	2	2	3	50	20	10	15	5	100	2	-
	Total			18						600		





Elective Courses of Third Level – Computer Science

المتطلب		عدد الم الفع	عدد الساعات	اسم المقرر	كود المقرر
السابق	عملي	محاضر ة	المعتمدة	اسم المعرر	عود المعرر
CSD223	2	2	3	Advanced Programming Languages لغات البرمجة المتقدمة	CSD342
ISD101	2	2	3	Information Visualization تصور المعلومات	ISD303
CSD230	2	2	3	Digital Signal Processing معالجة الإشارات الرقمية	CSD343
CSD335	2	2	3	Logic Programming البرمجة المنطقية	CSD344
-	2	2	3	Knowledge Representation and Reasoning تمثيل المعرفة والاستدلال	ISD352
-	2	2	3	Mobile computing الحوسبة المتنقلة	CSD339
CSD106	2	2	3	Computer Arabization تعریب الحاسبات	CSD345
-	2	2	3	Security and Cryptography الأمن والتشفير	ISD335
CSD106	2	2	3	Human Computer Interaction	CSD346





Fourth Level – Computer Science

1st Semester

		Con ho		ırs		M	ark Di	stribu	tion		Time	ite
Code	Course title	Lecture	Practical	Credit hours	Final Exam	Practical Exam	Mid-Term Exam	Course Activities	Oral Exam	Total	Exam Ti	Prerequisite
CSD441	Mobile Communication Systems	2	2	3	50	20	10	15	5	100	2	CSD338
CSD444	Distributed Systems	2	2	3	50	20	10	15	5	100	2	CSD333
CSD443	Computer Vision Systems	2	2	3	50	20	10	15	5	100	2	CSD334
	Elective Course (5)	2	2	3	50	20	10	15	5	100	2	
	Elective Course (6)	2	2	3	50	20	10	15	5	100	2	-
CSD449	Graduation Project	3	-	3	-	-	-	-	-	-	-	-
	Total			18						500		

		Con ho	tact urs	ırs		M	ark Di	stribu	tion		Time	ite
Code	Course title	Lecture	Practical	Credit hours	Final Exam	Practical Exam	Mid-Term Exam	Course Activities	Oral Exam	Total	Exam Ti	Prerequisite
CSD451	Computer and Network Security	2	2	3	50	20	10	15	5	100	2	CSD332
CSD447	Cloud Computing	2	2	3	50	20	10	15	5	100	2	CSD444
CSD442	Neural Networks and Deep Learning	2	2	3	50	20	10	15	5	100	2	CSD331
	Elective Course (7)	2	2	3	50	20	10	15	5	100	2	-
CSD449	Graduation Project	3	-	3	-	-	-	-	-	200	-	CSD449
	Total			15						600		





Elective Courses of Fourth Level – Computer Science

المتطلب		عدد اله الفع	عدد الساعات	المرائمة المقار	كود المقرر
السابق	عملي	محاضر ة	المعتمدة	اسم المقرر	عود المعرر
CSD106	2	2	3	Dynamic Languages اللغات الديناميكية	CSD452
ISD102	2	2	3	Data Mining التنقيب عن البيانات	ISD471
ISD104	2	2	3	Big data Analysis تحليل البيانات الكبيرة	ISD338
BSD228	2	2	3	Introduction to Quantum Computing الإحصاء الكمية	CSD453
ISD337	2	2	3	Cyber security الأمن السيبر الي	CSD458
ISD102	2	2	3	Bioinformatics المعلوماتية الحيوية	ISD441
CSD331	2	2	3	Optimization Methods طرق التحسين	CSD446
CSD333	2	2	3	Parallel Processing المعالجة المتوازية	CSD448
CSD331	2	2	3	Introduction to Machine Learning	CSD445





Third Level – Information Systems

1st Semester

		Con ho	tact urs	ırs		M	ark Di	stribu	tion		Time	ite
Code	Course title	Lecture	Practical	Credit hours	Final Exam	Practical Exam	Mid-Term Exam	Course Activities	Oral Exam	Total	Exam Ti	Prerequisite
ISD347	Computer Network Management	2	2	3	50	20	10	15	5	100	2	ISD104
ISD331	Information Retrieval Systems	2	2	3	50	20	10	15	5	100	2	ISD104
CSD339	Mobile Computing	2	2	3	50	20	10	15	5	100	2	-
ISD333	Decision Support Systems	2	2	3	50	20	10	15	5	100	2	ISD104
ISD338	Big Data Analysis	2	2	3	50	20	10	15	5	100	2	ISD104
	Elective Course (3)	2	2	3	50	20	10	15	5	100	2	-
	Total			18						600		

Code		Contact hours		ırs	Mark Distribution						Time	ite
	Course title	Lecture	Practical	Credit hours	Final Exam	Practical Exam	Mid-Term Exam	Course Activities	Oral Exam	Total	Exam Tir	Prerequisite
CSD331	Artificial Intelligence	2	2	3	50	20	10	15	5	100	2	CSD230
ISD336	Advanced Database Systems	2	2	3	50	20	10	15	5	100	2	ISD102
ISD337	Information Security	2	2	3	50	20	10	15	5	100	2	-
CSD341	Software Engineering	2	2	3	50	20	10	15	5	100	2	ISD104
ISD365	Electronic Government	2	1	2	50	20	10	15	5	100	2	-
	Elective Course (4)	2	2	3	50	20	10	15	5	100	2	-
			17						600			





Elective Courses of third Level – Information Systems

المتطلب	ساعات الية	عدد اله الفع	عدد الساعات	. 5 at 1 a 1	كود المقرر	
السابق	محاضر عملي		المعتمدة	اسم المقرر	عود العفرر	
BSD104 CSD230	2	2	3	Digital image processing معالجة الصور الرقمية	CSD334	
ISD101	2	2	3	Management information systems إدارة نظم المعلومات	ISD334	
ISD101	2	2	3	Information Visualization تصور المعلومات	ISD303	
-	2	2	3	& Knowledge representation reasoning تمثیل المعرفة والمنطق	ISD352	
CSD223	2	2	3	Advanced Programming Languages لغات البرمجة المتقدمة	CSD342	





Fourth Level – Information Systems

1st Semester

		Contact hours		ırs	Mark Distribution						Time	ite
Code	Course title	Lecture	Practical	Credit hours	Final Exam	Practical Exam	Mid-Term Exam	Course Activities	Oral Exam	Total	Exam Ti	Prerequisite
ISD441	Bioinformatics	2	2	3	50	20	10	15	5	100	2	ISD102
ISD471	Data Mining	2	2	3	50	20	10	15	5	100	2	ISD102
ISD444	Medical Information Systems	2	2	3	50	20	10	15	5	100	2	ISD101
	Elective Course (5)	2	2	3	50	20	10	15	5	100	2	-
	Elective Course (6)	2	2	3	50	20	10	15	5	100	2	-
ISD446	Graduation Project	3	-	3	-	-	-	-	-	-	-	-
			18						500			

		Contact hours		ırs	Mark Distribution						Time	ite
Code	Course title	Lecture	Practical	Credit hours	Final Exam	Practical Exam	Mid-Term Exam	Course Activities	Oral Exam	Total	Exam Ti	Prerequisite
CSD445	Introduction to Machine Learning	2	2	3	50	20	10	15	5	100	2	CSD331
ISD445	Geographical Information Systems	2	2	3	50	20	10	15	5	100	2	ISD334
CSD458	Cyber Security	2	2	3	50	20	10	15	5	100	2	ISD337
	Elective Course (7)	2	2	3	50	20	10	15	5	100	2	-
ISD446	Graduation Project	3	-	3	-	-	-	-	-	200	-	ISD446
			15						600			





Elective Courses of fourth Level – Information Systems

المتطلب السابق		عدد اله الفع	عدد الساعات	اسم المقرر	كود المقرر
السابق	عملي	محاضر ة	المعتمدة	النبع المعرر	عود المعرر
ISD102	2	2	3	XML Databases XML قواعد بیانات	ISD451
ISD101	2	2	3	Web Information Systems نظم معلومات الویب	ISD453
BSD228	2	2	3	Quantum Information معلومات الكم	ISD456
-	2	2	3	Electronic Health الصحة الإلكترونية	ISD455
-	2	2	3	Electronic Commerce التجارة الإلكترونية	ISD452
CSD331	2	2	3	Optimization Systems	CSD446
ISD332	2	2	3	Cloud computing Applications	ISD454